

^{122}I $Z = 53$ $N = 69$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1029.316 (0.005) MeV

Qbeta+ = 4.234 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
122I	1 0.000	1+			1 3.63 M 6
122I	2			0.053 0,1,2,3+	2
122I	3			0.062 0+,1+	3 7.4 NS 3
122I	4			0.091 1+,2+	4 1.9 NS 3
122I	5			0.110	5
122I	6 0.149	1+			6 80 PS LE
122I	7			0.154	7
122I	8			0.156 (4+)	8 16.6 NS
122I	9			0.163 1+,2+	9
122I	10			0.176	10
122I	11			0.177	11
122I	12			0.247	12
122I	13			0.279 0,1	13
122I	14			0.299	14
122I	15			0.315 (7-)	15 190 NS
122I	16			0.343 (6+)	16
122I	17 0.350	1+			17
122I	18			0.357	18
122I	19			0.379 (7-)	19 80 US 8
122I	20			0.390 (8+)	20
122I	21			0.394 (8+)	21 80 US 8
122I	22 0.417	1+			22
122I	23			0.444 (8-)	23 148 NS
122I	24			0.453	24
122I	25			0.458 (8-)	25
122I	26			0.502	26
S-alpha=	0.508 (0.006)				
122I	27			0.519 (8-)	27
122I	28			0.534	28
122I	29			0.581 (6+)	29
122I	30			0.717 (9-)	30
122I	31			0.732 (5+)	31
122I	32			0.746 (9-)	32
122I	33			0.786 (8+)	33
122I	34			0.858 (7+)	34
122I	35			1.017 (9-)	35
122I	36			1.068 (10-)	36

122I	37				1.092		37
122I	38				1.109	(10-)	38
122I	39				1.166	(10+)	39
122I	40				1.209		40

122I	41				1.244	(10-)	41
122I	42				1.260	(10-)	42
122I	43				1.429	(7+)	43
122I	44				1.444	(11-)	44
122I	45				1.489	(11-)	45
122I	46				1.536	(11+)	46
122I	47				1.624	(11-)	47
122I	48				1.720		48
122I	49				1.775	(10-)	49
122I	50				1.825	(12+)	50

122I	51				1.841	(12-)	51
122I	52				1.849	(12-)	52
122I	53				2.013	(11-)	53
122I	54				2.067	(12-)	54
122I	55				2.071	(12-)	55
122I	56				2.184	(13+)	56
122I	57				2.188	(9+)	57
122I	58				2.273	(13-)	58
122I	59				2.334	(12-)	59
122I	60				2.356	(13-)	60

122I	61				2.502		61
122I	62				2.524	(14+)	62
122I	63				2.546	(13-)	63
122I	64				2.649	(13-)	64
122I	65				2.680	(14-)	65
122I	66				2.730	(14-)	66
122I	67				2.824	(15+)	67
122I	68				2.988	(14-)	68
122I	69				3.008	(16+)	69
122I	70				3.046	(14-)	70

122I	71				3.052	(14-)	71
122I	72				3.216	(15-)	72
122I	73				3.290		73
122I	74				3.342	(15-)	74
122I	75				3.406	(15-)	75
122I	76				3.597	(15-)	76
122I	77				3.641	(16-)	77
122I	78				3.649	(17+)	78
122I	79				3.674	(16-)	79
122I	80				3.774	(16-)	80

122I	81				3.949	(17+)	81

122I	82				4.167	(17-)	82
122I	83				4.205	(17-)	83
122I	84				4.217	(18+)	84
122I	85				4.247		85
122I	86				4.518	(18-)	86
122I	87				4.605	(18-)	87
122I	88				4.611		88
122I	89				4.775		89
S-p	=	4.825	(0.026)	-----			
122I	90				4.953	(19-)	90

122I	91				5.144	(20+)	91
122I	92				5.220	(20-)	92
122I	93				5.461		93
122I	94				5.493	(22+)	94
122I	95				6.009		95
122I	96				6.217	(23+)	96
122I	97				7.023	(24+)	97
S-n	=	7.905	(0.007)	-----			
122I	98				8.323		98

S-p = 4.825 (0.026)-----
S-n = 7.905 (0.007)-----
S-2p = 12.240 (0.009)-----
S-2n = 18.475 (0.016)-----
S-alpha= 0.508 (0.006)-----

S+p = -6.458 (0.011)
S+n = -9.935 (0.006)
S+2p = -10.240 (0.011)
S+2n = -17.428 (0.006)
S+alpha = -0.696 (0.012)

gap p = -1.633 (0.028)
gap n = -2.030 (0.009)
gap 2p = 2.000 (0.014)
gap 2n = 1.047 (0.017)
gap alpha = -0.188 (0.013)